

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10/591,419
Source: IFWP
Date Processed by STIC: 09/13/2006

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IFWP

RAW SEQUENCE LISTING

DATE: 09/13/2006

PATENT APPLICATION: US/10/591,419

TIME: 13:09:30

Input Set : N:\RJAVED\10591419.txt

Output Set: N:\CRF4\09132006\J591419.raw

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3 <110> APPLICANT: Frohberg, Claus
4      Koetting, Oliver
5      Ritte, Gerhard
6      Steup, Martin
8 <120> TITLE OF INVENTION: Methods for identifying proteins with starch phosphorylating
enzymatic
9      activity
11 <130> FILE REFERENCE: 65084.000020
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/591,419
14 <141> CURRENT FILING DATE: 2006-09-01
16 <150> PRIOR APPLICATION NUMBER: PCT/EP2005/002454
17 <151> PRIOR FILING DATE: 2005-03-04
19 <150> PRIOR APPLICATION NUMBER: EP04090483.1
20 <151> PRIOR FILING DATE: 2004-12-15
22 <150> PRIOR APPLICATION NUMBER: EP04090121.7
23 <151> PRIOR FILING DATE: 2004-03-29
25 <150> PRIOR APPLICATION NUMBER: EP04090087.0
26 <151> PRIOR FILING DATE: 2004-03-05
28 <150> PRIOR APPLICATION NUMBER: US60/549,980 provisional
29 <151> PRIOR FILING DATE: 2004-03-05
31 <160> NUMBER OF SEQ ID NOS: 46
33 <170> SOFTWARE: PatentIn version 3.1
35 <210> SEQ ID NO: 1
36 <211> LENGTH: 3591
37 <212> TYPE: DNA
38 <213> ORGANISM: Arabidopsis thaliana
40 <220> FEATURE:
41 <221> NAME/KEY: CDS
42 <222> LOCATION: (1)..(3591)
43 <223> OTHER INFORMATION:
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48 Met Glu Ser Ile Gly Ser His Cys Cys Ser Ser Pro Phe Thr Phe Ile
49 1          5          10          15
51 act aga aac tca tca tca tca ctt cct aga ctc gtt aac atc act cac      96
52 Thr Arg Asn Ser Ser Ser Ser Leu Pro Arg Leu Val Asn Ile Thr His
53          20          25          30
55 aga gtt aat ctc agc cac caa tct cac cga ctc aga aac tcc aat tct      144
56 Arg Val Asn Leu Ser His Gln Ser His Arg Leu Arg Asn Ser Asn Ser
57          35          40          45
59 cgt ctc act tgc act gct act tct tct tcc acc att gag gaa caa cgg      192
60 Arg Leu Thr Cys Thr Ala Thr Ser Ser Ser Thr Ile Glu Glu Gln Arg
61          50          55          60
63 aag aag aaa gat gga tca gga acg aaa gtg agg ttg aat gtg agg tta      240

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65	65					70					75					80	
67	gat	cat	caa	gtt	aat	ttt	ggt	gac	cat	gtg	gct	atg	ttt	gga	tca	gct	288
68	Asp	His	Gln	Val	Asn	Phe	Gly	Asp	His	Val	Ala	Met	Phe	Gly	Ser	Ala	
69					85					90				95			
71	aaa	gag	att	ggt	tca	tgg	aaa	aag	aaa	tcg	cct	ttg	aat	tgg	agt	gag	336
72	Lys	Glu	Ile	Gly	Ser	Trp	Lys	Lys	Lys	Ser	Pro	Leu	Asn	Trp	Ser	Glu	
73				100						105				110			
75	aat	gga	tgg	gtt	tgt	gag	ttg	gaa	ctt	gac	ggt	ggt	cag	gtt	ttg	gag	384
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77			115						120				125				
79	tat	aag	ttt	gtc	att	gtt	aag	aat	gat	ggt	tca	ctt	tca	tgg	gaa	tct	432
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84	Gly	Asp	Asn	Arg	Val	Leu	Lys	Val	Pro	Asn	Ser	Gly	Asn	Phe	Ser	Val	
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87	gtt	tgt	cat	tgg	gat	gct	act	aga	gaa	acc	ctt	gat	ttg	cct	cag	gag	528
88	Val	Cys	His	Trp	Asp	Ala	Thr	Arg	Glu	Thr	Leu	Asp	Leu	Pro	Gln	Glu	
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92	Val	Gly	Asn	Asp	Asp	Asp	Val	Gly	Asp	Gly	Gly	His	Glu	Arg	Asp	Asn	
93				180					185				190				
95	cat	gat	gtt	ggt	gat	gat	aga	gta	gtg	gga	agt	gaa	aat	ggt	gcg	cag	624
96	His	Asp	Val	Gly	Asp	Asp	Arg	Val	Val	Gly	Ser	Glu	Asn	Gly	Ala	Gln	
97			195				200					205					
99	ctt	cag	aag	agt	aca	ttg	ggt	ggg	caa	tgg	caa	ggt	aaa	gat	gcg	tcc	672
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101		210				215					220						
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104	Phe	Met	Arg	Ser	Asn	Asp	His	Gly	Asn	Arg	Glu	Val	Gly	Arg	Asn	Trp	
105	225					230				235				240			
107	gat	act	agt	ggt	ctt	gaa	ggc	aca	gct	ctt	aag	atg	gtt	gag	ggt	gat	768
108	Asp	Thr	Ser	Gly	Leu	Glu	Gly	Thr	Ala	Leu	Lys	Met	Val	Glu	Gly	Asp	
109				245					250				255				
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112	Arg	Asn	Ser	Lys	Asn	Trp	Trp	Arg	Lys	Leu	Glu	Met	Val	Arg	Glu	Val	
113				260				265					270				
115	ata	gtt	ggg	agt	gtt	gag	agg	gag	gaa	cga	ttg	aag	gcg	ctc	ata	tac	864
116	Ile	Val	Gly	Ser	Val	Glu	Arg	Glu	Glu	Arg	Leu	Lys	Ala	Leu	Ile	Tyr	
117			275					280					285				
119	tct	gca	att	tat	ttg	aag	tgg	ata	aac	aca	ggt	cag	att	cct	tgt	ttt	912
120	Ser	Ala	Ile	Tyr	Leu	Lys	Trp	Ile	Asn	Thr	Gly	Gln	Ile	Pro	Cys	Phe	
121		290				295					300						
123	gaa	gat	gga	ggg	cat	cac	cgt	cca	aac	agg	cat	gcc	gag	att	tcc	aga	960
124	Glu	Asp	Gly	Gly	His	His	Arg	Pro	Asn	Arg	His	Ala	Glu	Ile	Ser	Arg	
125	305					310				315					320		
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128	Leu	Ile	Phe	Arg	Glu	Leu	Glu	His	Ile	Cys	Ser	Lys	Lys	Asp	Ala	Thr	

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132	Pro Glu Glu Val Leu Val Ala Arg Lys Ile His Pro Cys Leu Pro Ser							
133		340		345		350		
135	ttc aaa gca gag ttt act gca gct gtc cct cta act cgg att agg gac							1104
136	Phe Lys Ala Glu Phe Thr Ala Ala Val Pro Leu Thr Arg Ile Arg Asp							
137		355		360		365		
139	ata gcc cat ccg aat gat att cct cat gat ctc aag caa gaa atc aag							1152
140	Ile Ala His Arg Asn Asp Ile Pro His Asp Leu Lys Gln Glu Ile Lys							
141		370		375		380		
143	cat acg ata caa aat aag ctt cac cgg aat gct ggt cca gaa gat cta							1200
144	His Thr Ile Gln Asn Lys Leu His Arg Asn Ala Gly Pro Glu Asp Leu							
145	385		390		395		400	
147	att gca aca gaa gca atg ctt caa cga att acc gag acc cca gga aaa							1248
148	Ile Ala Thr Glu Ala Met Leu Gln Arg Ile Thr Glu Thr Pro Gly Lys							
149		405		410		415		
151	tat agt gga gac ttt gtg gag cag ttt aaa ata ttc cat aat gag ctt							1296
152	Tyr Ser Gly Asp Phe Val Glu Gln Phe Lys Ile Phe His Asn Glu Leu							
153		420		425		430		
155	aaa gat ttc ttt aat gct gga agt ctc act gaa cag ctt gat tct atg							1344
156	Lys Asp Phe Phe Asn Ala Gly Ser Leu Thr Glu Gln Leu Asp Ser Met							
157		435		440		445		
159	aaa att tct atg gat gat aga ggt ctt tct gcg ctc aat ttg ttt ttt							1392
160	Lys Ile Ser Met Asp Asp Arg Gly Leu Ser Ala Leu Asn Leu Phe Phe							
161		450		455		460		
163	gaa tgt aaa aag cgc ctt gac aca tca gga gaa tca agc aat gtt ttg							1440
164	Glu Cys Lys Lys Arg Leu Asp Thr Ser Gly Glu Ser Ser Asn Val Leu							
165	465		470		475		480	
167	gag ttg att aaa acc atg cat tct cta gct tct tta aga gaa aca att							1488
168	Glu Leu Ile Lys Thr Met His Ser Leu Ala Ser Leu Arg Glu Thr Ile							
169		485		490		495		
171	ata aag gaa ctt aat agc ggc ttg cga aat gat gct cct gat act gcc							1536
172	Ile Lys Glu Leu Asn Ser Gly Leu Arg Asn Asp Ala Pro Asp Thr Ala							
173		500		505		510		
175	att gca atg cgc cag aag tgg cgc ctt tgt gag atc ggc ctc gag gac							1584
176	Ile Ala Met Arg Gln Lys Trp Arg Leu Cys Glu Ile Gly Leu Glu Asp							
177		515		520		525		
179	tac ttt ttt gtt cta cta agc aga ttc ctc aat gct ctt gaa act atg							1632
180	Tyr Phe Phe Val Leu Leu Ser Arg Phe Leu Asn Ala Leu Glu Thr Met							
181		530		535		540		
183	gga gga gct gat caa ctg gca aaa gat gtg gga tca aga aac gtt gcc							1680
184	Gly Gly Ala Asp Gln Leu Ala Lys Asp Val Gly Ser Arg Asn Val Ala							
185	545		550		555		560	
187	tca tgg aat gat cca cta gat gct ttg gtg ttg ggt gtt cac caa gta							1728
188	Ser Trp Asn Asp Pro Leu Asp Ala Leu Val Leu Gly Val His Gln Val							
189		565		570		575		
191	ggt cta tct ggt tgg aag caa gaa gaa tgt tta gcc att gga aat gaa							1776
192	Gly Leu Ser Gly Trp Lys Gln Glu Glu Cys Leu Ala Ile Gly Asn Glu							
193		580		585		590		

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195	ctc	ctt	gct	tgg	cga	gaa	agg	gac	cta	ctt	gaa	aaa	gaa	ggg	gaa	gag	1824
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197			595					600					605				
199	gat	gga	aaa	aca	att	tgg	gcc	atg	agg	ctg	aaa	gca	act	ctt	gat	cga	1872
200	Asp	Gly	Lys	Thr	Ile	Trp	Ala	Met	Arg	Leu	Lys	Ala	Thr	Leu	Asp	Arg	
201		610					615					620					
203	gca	cgc	aga	tta	aca	gca	gaa	tat	tct	gat	ttg	ctt	ctt	caa	ata	ttt	1920
204	Ala	Arg	Arg	Leu	Thr	Ala	Glu	Tyr	Ser	Asp	Leu	Leu	Leu	Gln	Ile	Phe	
205	625					630				635						640	
207	cct	cct	aat	gtg	gag	att	tta	gga	aaa	gct	cta	gga	att	cca	gag	aat	1968
208	Pro	Pro	Asn	Val	Glu	Ile	Leu	Gly	Lys	Ala	Leu	Gly	Ile	Pro	Glu	Asn	
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211	agt	gtc	aag	acc	tat	aca	gaa	gca	gag	att	cgt	gct	gga	att	att	ttc	2016
212	Ser	Val	Lys	Thr	Tyr	Thr	Glu	Ala	Glu	Ile	Arg	Ala	Gly	Ile	Ile	Phe	
213			660					665					670				
215	cag	atc	tca	aag	ctc	tgc	act	gtt	ctt	cta	aaa	gct	gta	aga	aat	tca	2064
216	Gln	Ile	Ser	Lys	Leu	Cys	Thr	Val	Leu	Leu	Lys	Ala	Val	Arg	Asn	Ser	
217		675					680					685					
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220	Leu	Gly	Ser	Glu	Gly	Trp	Asp	Val	Val	Val	Pro	Gly	Ser	Thr	Ser	Gly	
221		690				695					700						
223	aca	tta	gtt	cag	gtt	gag	agc	att	gtt	ccg	gga	tca	ttg	cca	gca	act	2160
224	Thr	Leu	Val	Gln	Val	Glu	Ser	Ile	Val	Pro	Gly	Ser	Leu	Pro	Ala	Thr	
225	705					710				715					720		
227	tct	ggt	ggt	cct	att	att	ctc	ttg	gtc	aat	aaa	gct	gat	ggc	gat	gaa	2208
228	Ser	Gly	Gly	Pro	Ile	Ile	Leu	Leu	Val	Asn	Lys	Ala	Asp	Gly	Asp	Glu	
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233			740					745				750					
235	gag	ctg	cct	cac	ttg	tct	cac	ctt	ggc	gtt	aga	gcg	cgg	cag	gag	aaa	2304
236	Glu	Leu	Pro	His	Leu	Ser	His	Leu	Gly	Val	Arg	Ala	Arg	Gln	Glu	Lys	
237		755					760					765					
239	att	gtc	ttt	gtg	aca	tgt	gat	gat	gat	gac	aag	gtt	gct	gat	ata	cga	2352
240	Ile	Val	Phe	Val	Thr	Cys	Asp	Asp	Asp	Asp	Lys	Val	Ala	Asp	Ile	Arg	
241		770				775				780							
243	cga	ctt	gtg	gga	aaa	ttt	gtg	agg	ttg	gaa	gca	tct	cca	agt	cat	gtg	2400
244	Arg	Leu	Val	Gly	Lys	Phe	Val	Arg	Leu	Glu	Ala	Ser	Pro	Ser	His	Val	
245	785					790				795					800		
247	aat	ctg	ata	ctt	tca	act	gag	ggt	agg	agt	cgc	act	tcc	aaa	tcc	agt	2448
248	Asn	Leu	Ile	Leu	Ser	Thr	Glu	Gly	Arg	Ser	Arg	Thr	Ser	Lys	Ser	Ser	
249			805					810				815					
251	gcg	acc	aaa	aaa	acg	gat	aag	aac	agc	tta	tct	aag	aaa	aaa	aca	gat	2496
252	Ala	Thr	Lys	Lys	Thr	Asp	Lys	Asn	Ser	Leu	Ser	Lys	Lys	Lys	Thr	Asp	
253			820					825				830					
255	aag	aag	agc	tta	tct	atc	gat	gat	gaa	gaa	tca	aag	cct	ggt	tcc	tca	2544
256	Lys	Lys	Ser	Leu	Ser	Ile	Asp	Asp	Glu	Glu	Ser	Lys	Pro	Gly	Ser	Ser	
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264	Ile	Ile	Ala	Leu	Ala	Asp	Ala	Asp	Val	Pro	Thr	Ser	Gly	Ser	Lys	Ser	
265	865					870					875				880		
267	gct	gca	tgt	ggt	ctt	ctt	gca	tct	tta	gca	gaa	gcc	tct	agt	aaa	gtg	2688
268	Ala	Ala	Cys	Gly	Leu	Leu	Ala	Ser	Leu	Ala	Glu	Ala	Ser	Ser	Lys	Val	
269					885						890				895		
271	cac	agc	gaa	cac	gga	gtt	ccg	gca	tca	ttt	aag	gtt	cca	act	gga	gtt	2736
272	His	Ser	Glu	His	Gly	Val	Pro	Ala	Ser	Phe	Lys	Val	Pro	Thr	Gly	Val	
273			900						905					910			
275	gtc	ata	cct	ttt	gga	tcg	atg	gaa	tta	gct	tta	aag	caa	aat	aat	tcg	2784
276	Val	Ile	Pro	Phe	Gly	Ser	Met	Glu	Leu	Ala	Leu	Lys	Gln	Asn	Asn	Ser	
277			915					920						925			
279	gaa	gaa	aag	ttt	gcg	tct	ttg	cta	gaa	aaa	cta	gaa	acc	gcc	aga	cct	2832
280	Glu	Glu	Lys	Phe	Ala	Ser	Leu	Leu	Glu	Lys	Leu	Glu	Thr	Ala	Arg	Pro	
281		930					935					940					
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284	Glu	Gly	Gly	Glu	Leu	Asp	Asp	Ile	Cys	Asp	Gln	Ile	His	Glu	Val	Met	
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287	aaa	acg	ttg	caa	gtg	cct	aaa	gaa	aca	atc	aac	agc	ata	agc	aaa	gcg	2928
288	Lys	Thr	Leu	Gln	Val	Pro	Lys	Glu	Thr	Ile	Asn	Ser	Ile	Ser	Lys	Ala	
289					965					970					975		
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292	Phe	Leu	Lys	Asp	Ala	Arg	Leu	Ile	Val	Arg	Ser	Ser	Ala	Asn	Val	Glu	
293				980					985					990			
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296	Asp	Leu	Ala	Gly	Met	Ser	Ala	Ala	Gly	Leu	Tyr	Glu	Ser	Ile	Pro	Asn	
297			995					1000						1005			
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300	Val	Ser	Pro	Ser	Asp	Pro	Leu	Val	Phe	Ser	Asp	Ser	Val	Cys	Gln		
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305		1025					1030						1035				
307	gct	gct	ggt	gtc	tct	caa	aga	gaa	gct	tca	atg	gct	gtt	ctc	gtt		3159
308	Ala	Ala	Gly	Val	Ser	Gln	Arg	Glu	Ala	Ser	Met	Ala	Val	Leu	Val		
309		1040					1045						1050				
311	caa	gaa	atg	ctt	tcg	ccg	gac	tta	tca	ttc	gtt	ctg	cac	aca	gtg		3204
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313		1055					1060						1065				
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316	Ser	Pro	Ala	Asp	Pro	Asp	Ser	Asn	Leu	Val	Glu	Ala	Glu	Ile	Ala		
317		1070					1075						1080				
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320	Pro	Gly	Leu	Gly	Glu	Thr	Leu	Ala	Ser	Gly	Thr	Arg	Gly	Thr	Pro		
321		1085					1090						1095				
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VERIFICATION SUMMARY

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Output Set: N:\CRF4\09132006\J591419.raw

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